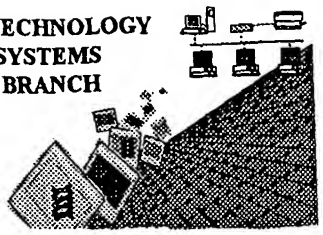
0590
/02/

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/074,978
Source: OIPE
Date Processed by STIC: 10/24/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
   Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

OIPE

RAW SEQUENCE LISTING DATE: 10/24/2002
PATENT APPLICATION: US/10/074,978 TIME: 14:54:11

Input Set : A:\Cura5691.app
Output Set: N:\CRF4\10242002\J074978.raw

3 <110> APPLICANT: Leite, Mario
4 Spytek, Kimberly A
5 Guo, Xiaojia (Sasha)
6 Fernandes, Elma
7 Li, Li
8 Kekuda, Ramesh
9 Liu, Xiahong
10 Casman, Stacie
11 Boldog, Ferenc
12 Patturajan, Meera
13 Blalock, Angela
14 Ballinger, Robert
15 Vernet, Corine
16 Tchernev, Velizar T
17 Malyankar, Uriel M
18 Gusev, Vladimir
19 Rastelli, Luca
20 Mezes, Peter S
21 Ellerman, Karen
22 Heyes, Melvin P
23 Herrman, John
24 Pena, Carol E A
25 Shimkets, Richard A
26 Taupier Jr, Raymond J
27 Moore, Noelle
28 Shenoy, Suresh
29 Edinger, Shlomit
30 Gunther, Erik
31 Stone, Dave
32 Millet, Isabelle
W--> 33 **Peyman, John**
W--> 34 **Smithson, Glennda**
36 <120> TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
38 <130> FILE REFERENCE: 21402-269
40 <140> CURRENT APPLICATION NUMBER: 10/074,978
41 **<141> CURRENT FILING DATE: 2002-10-11**
43 <150> PRIOR APPLICATION NUMBER: 60/268,221
44 <151> PRIOR FILING DATE: 2001-02-12
46 <150> PRIOR APPLICATION NUMBER: 60/335,109
47 <151> PRIOR FILING DATE: 2001-10-31
49 <150> PRIOR APPLICATION NUMBER: 60/312,284
50 <151> PRIOR FILING DATE: 2001-08-14
52 <150> PRIOR APPLICATION NUMBER: 60/268,496

Does Not Comply
Corrected Diskette Needed
see pp. 3-4, 6-7

RAW SEQUENCE LISTING DATE: 10/24/2002
PATENT APPLICATION: US/10/074,978 TIME: 14:54:11

Input Set : A:\Cura5691.app
Output Set: N:\CRF4\10242002\J074978.raw

53 <151> PRIOR FILING DATE: 2001-02-13
55 <150> PRIOR APPLICATION NUMBER: 60/276,703
56 <151> PRIOR FILING DATE: 2001-03-16
58 <150> PRIOR APPLICATION NUMBER: 60/330,293
59 <151> PRIOR FILING DATE: 2001-10-18
61 <150> PRIOR APPLICATION NUMBER: 60/322,127
62 <151> PRIOR FILING DATE: 2001-11-21
64 <150> PRIOR APPLICATION NUMBER: 60/280,899
65 <151> PRIOR FILING DATE: 2001-04-02
67 <150> PRIOR APPLICATION NUMBER: 60/310,797
68 <151> PRIOR FILING DATE: 2001-08-08
70 <150> PRIOR APPLICATION NUMBER: 60/268,646
71 <151> PRIOR FILING DATE: 2001-02-14
73 <150> PRIOR APPLICATION NUMBER: 60/276,399
74 <151> PRIOR FILING DATE: 2001-03-16
76 <150> PRIOR APPLICATION NUMBER: 60/268,665
77 <151> PRIOR FILING DATE: 2001-02-14
79 <150> PRIOR APPLICATION NUMBER: 60/269,530
80 <151> PRIOR FILING DATE: 2001-02-16
82 <150> PRIOR APPLICATION NUMBER: 60/269,136
83 <151> PRIOR FILING DATE: 2001-02-15
85 <150> PRIOR APPLICATION NUMBER: 60/279,274
86 <151> PRIOR FILING DATE: 2001-03-28
88 <150> PRIOR APPLICATION NUMBER: 60/331,772
89 <151> PRIOR FILING DATE: 2001-11-21
91 <150> PRIOR APPLICATION NUMBER: 60/322,295
92 <151> PRIOR FILING DATE: 2001-09-14
94 <150> PRIOR APPLICATION NUMBER: 60/278,199
95 <151> PRIOR FILING DATE: 2001-03-23
97 <150> PRIOR APPLICATION NUMBER: 60/276,405
98 <151> PRIOR FILING DATE: 2001-03-15
100 <150> PRIOR APPLICATION NUMBER: 60/269,310
101 <151> PRIOR FILING DATE: 2001-02-16
103 <150> PRIOR APPLICATION NUMBER: 60/280,238
104 <151> PRIOR FILING DATE: 2001-03-30
106 <150> PRIOR APPLICATION NUMBER: 60/322,294
107 <151> PRIOR FILING DATE: 2001-09-14
109 <150> PRIOR APPLICATION NUMBER: 60/335,104
110 <151> PRIOR FILING DATE: 2001-10-31
112 <160> NUMBER OF SEQ ID NOS: 547
114 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

7202 <210> SEQ ID NO: 137
7203 <211> LENGTH: 125
7204 <212> TYPE: PRT
7205 <213> ORGANISM: Homo sapiens

see p. 3

RAW SEQUENCE LISTING DATE: 10/24/2002
PATENT APPLICATION: US/10/074,978 TIME: 14:54:12

Input Set : A:\Cura5691.app
Output Set: N:\CRF4\10242002\J074978.raw

```
    7207 <400> SEQUENCE: 137
E--> 7208 Xaa Lys Glu Ser Ala Ala Ala Lys Phe Glu Arg Gln His Met Asp Ser
    7209  1               5                  10                  15
    7211 Gly Asn Ser Pro Ser Ser Ser Ser Thr Tyr Cys Asn Gln Met Met Arg
    7212              20                  25                  30
    7214 Arg Arg Asn Met Thr Gln Gly Arg Cys Lys Pro Val Asn Thr Phe Val
    7215          35                  40                  45
    7217 His Glu Ser Leu Val Asp Val Gln Asn Val Cys Phe Gln Glu Lys Val
    7218      50                  55                  60
    7220 Thr Cys Lys Asn Gly Gln Gly Asn Cys Tyr Lys Ser Asn Ser Ser Met
    7221  65                  70                  75                  80
    7223 His Ile Thr Asp Cys Arg Leu Thr Asn Gly Ser Arg Tyr Pro Asn Cys
    7224                  85                  90                  95
    7226 Ala Tyr Arg Thr Ser Pro Lys Glu Arg His Ile Ile Val Ala Cys Glu
    7227             100                 105                 110
    7229 Gly Ser Pro Tyr Val Pro Val His Phe Asp Ala Ser Val
    7230         115                 120                 125
    16180 <210> SEQ ID NO: 270
    16181 <211> LENGTH: 416
    16182 <212> TYPE: PRT
    16183 <213> ORGANISM: Canis familiaris
    16185 <400> SEQUENCE: 270
    16186 Met Ala Phe Leu Ile Leu Val Thr Leu Ala Leu Ala Ser Ala His Tyr
    16187   1               5                  10                  15
    16189 Ser Gly Glu His Phe Glu Gly Glu Lys Val Phe Arg Val Asn Val Glu
    16190              20                  25                  30
    16192 Asp Glu Asn His Ile Asn Leu Leu His Thr Leu Ala Ser Thr Thr Gln
    16193          35                  40                  45
    16195 Ile Asp Phe Trp Lys Pro Asp Ser Val Thr Gln Ile Lys Pro His Ser
    16196      50                  55                  60
    16198 Thr Ala Asp Phe Arg Val Lys Ala Glu Asp Ile Leu Thr Val Glu Asp
    16199  65                  70                  75                  80
    16201 Phe Leu Lys Gln Asn Glu Leu His Tyr Glu Val Leu Ile Asn Asn Leu
    16202                  85                  90                  95
    16204 Arg Leu Val Leu Glu Gly Gln Phe Gly Arg Gln Val Pro Ala Thr Gly
    16205             100                 105                 110
    16207 His Ser Tyr Glu Lys Tyr Asn Arg Trp Glu Thr Ile Glu Ala Trp Thr
    16208         115                 120                 125
    16210 Gln Gln Val Thr Ser Glu Asn Pro Asp Leu Ile Ser Arg Arg Ser Ile
    16211     130                 135                 140
    16213 Gly Thr Thr Phe Glu Gly Arg Thr Ile Tyr Leu Leu Lys Val Gly Lys
    16214 145                 150                 155                 160
    16216 Ala Gly Gln Asn Lys Pro Ala Ile Phe Met Asp Cys Gly Phe His Ala
    16217                 165                 170                 175
E--> 16219 Arg Glu Trp Ile Ser Pro Ala Phe Trp Gln Trp Phe Val Arg Glu Xaa
    16220             180                 185                 190
    16222 Ile Arg Thr Tyr Gly Gln Glu Ile His Met Thr Glu Leu Leu Asp Lys
    16223         195                 200                 205
    16225 Leu Asp Phe Tyr Val Leu Pro Val Gly Asn Ile Asp Gly Tyr Val Tyr
```

see p.7 for error explanation

see p.7

RAW SEQUENCE LISTING DATE: 10/24/2002
PATENT APPLICATION: US/10/074,978 TIME: 14:54:13

Input Set : A:\Cura5691.app
Output Set: N:\CRF4\10242002\J074978.raw

```
16226     210                 215                 220
16228 Thr Trp Thr Lys Asn Arg Met Trp Arg Lys Thr Arg Ser Thr Gln Val
16229 225                 230                 235                 240
16231 Gly Thr Asn Cys Val Gly Thr Asp Pro Thr Arg Asn Phe Asp Ala Gly
16232                 245                 250                 255
16234 Trp Cys Lys Ile Gly Ala Ser Arg Asn Pro Cys Asp Glu Thr Tyr Cys
16235             260                 265                 270
16237 Gly Pro Ala Ala Glu Ser Glu Lys Glu Thr Lys Ala Leu Ala Asn Phe
16238         275                 280                 285
16240 Ile Arg Ser Asn Leu Ser Ser Ile Lys Ala Tyr Leu Thr Ile His Ser
16241     290                 295                 300
16243 Tyr Ser Gln Met Met Leu Tyr Pro Tyr Ser Tyr Asp Tyr Lys Leu Thr
16244 305                 310                 315                 320
16246 Glu Asn Asn Ala Glu Leu Asn Ala Leu Ala Lys Ala Thr Val Lys Glu
16247                 325                 330                 335
16249 Leu Ala Thr Leu His Gly Thr Lys Tyr Thr Tyr Gly Pro Gly Ala Thr
16250             340                 345                 350
16252 Thr Ile Tyr Pro Ala Ala Gly Gly Ser Asp Asp Trp Ala Tyr Asp Gln
16253         355                 360                 365
16255 Gly Ile Lys Tyr Ser Phe Thr Phe Glu Leu Arg Asp Lys Gly Arg Tyr
16256     370                 375                 380
16258 Gly Phe Ala Leu Pro Glu Ser Gln Ile Ser Pro Thr Cys Glu Glu Thr
16259 385                 390                 395                 400
16261 Leu Leu Ala Ile Lys His Leu Ala Arg Tyr Val Leu Gln His Leu Tyr
16262                 405                 410                 415
18405 <210> SEQ ID NO: 308
18406 <212> TYPE: PRT
18407 <213> ORGANISM: Rattus norvegicus
W--> 18409
18409 <400> SEQUENCE: 308
E--> 18409
19439 <210> SEQ ID NO: 331
19440 <211> LENGTH: 768
19441 <212> TYPE: PRT
19442 <213> ORGANISM: Mus musculus
19444 <400> SEQUENCE: 331
19445 Met Lys Leu Leu Trp Gln Ala Lys Met Ser Ser Ile Gln Asp Trp Gly
19446   1               5                  10                  15
19448 Glu Glu Val Glu Glu Gly Ala Val Tyr His Val Thr Leu Lys Arg Val
19449              20                  25                  30
19451 Gln Ile Gln Gln Ala Ala Asn Lys Gly Ala Arg Trp Leu Gly Val Glu
19452          35                  40                  45
19454 Gly Asp Gln Leu Pro Pro Gly His Thr Val Ser Gln Tyr Glu Thr Cys
19455      50                  55                  60
19457 Lys Ile Arg Thr Ile Lys Ala Gly Thr Leu Glu Lys Leu Val Glu Asn
19458  65                  70                  75                  80
19460 Leu Leu Thr Ala Phe Gly Asp Asn Asp Phe Thr Tyr Ile Ser Ile Phe
19461                  85                  90                  95
19463 Leu Ser Thr Tyr Arg Gly Phe Ala Ser Thr Lys Glu Val Leu Glu Leu
```

<2117 mandatory numeric identifier and response needed

where are amino acids?

p6

RAW SEQUENCE LISTING DATE: 10/24/2002
PATENT APPLICATION: US/10/074,978 TIME: 14:54:14

Input Set : A:\Cura5691.app
Output Set: N:\CRF4\10242002\J074978.raw

```
19464              100                 105                 110
19466 Leu Leu Asp Arg Tyr Gly Asn Leu Thr Ser Pro Asn Cys Glu Glu Asp
19467         115                 120                 125
19469 Gly Ser Gln Ser Ser Ser Glu Ser Lys Met Val Ile Arg Asn Ala Ile
19470     130                 135                 140
19472 Ala Ser Ile Leu Arg Ala Trp Leu Asp Gln Cys Ala Glu Asp Phe Arg
19473 145                 150                 155                 160
19475 Glu Pro Pro His Phe Pro Cys Leu Gln Lys Leu Leu Asp Tyr Leu Thr
19476                 165                 170                 175
19478 Arg Met Met Pro Gly Ser Asp Pro Glu Arg Arg Ala Gln Asn Leu Leu
19479             180                 185                 190
19481 Glu Gln Phe Gln Lys Gln Glu Val Glu Thr Asp Asn Gly Leu Pro Asn
19482         195                 200                 205
19484 Thr Ile Ser Phe Ser Leu Glu Glu Glu Glu Glu Leu Glu Gly Gly Glu
19485     210                 215                 220
19487 Ser Ala Glu Phe Thr Cys Phe Ser Glu Asp Leu Val Ala Glu Gln Leu
19488 225                 230                 235                 240
19490 Thr Tyr Met Asp Ala Gln Leu Phe Lys Lys Val Val Pro His His Cys
19491                 245                 250                 255
19493 Leu Gly Cys Ile Trp Ser Arg Arg Asp Lys Lys Glu Asn Lys His Leu
19494             260                 265                 270
19496 Ala Pro Thr Ile Arg Ala Thr Ile Ser Gln Phe Asn Thr Leu Thr Lys
19497         275                 280                 285
19499 Cys Val Val Ser Thr Ile Leu Gly Gly Lys Glu Leu Lys Thr Gln Gln
19500     290                 295                 300
19502 Arg Ala Lys Ile Ile Glu Lys Trp Ile Asn Ile Ala His Glu Cys Arg
19503 305                 310                 315                 320
19505 Leu Leu Lys Asn Phe Ser Ser Leu Arg Ala Ile Val Ser Ala Leu Gln
19506                 325                 330                 335
19508 Ser Asn Ser Ile Tyr Arg Leu Lys Lys Thr Trp Ala Ala Val Pro Arg
19509             340                 345                 350
19511 Asp Arg Met Leu Met Phe Glu Glu Leu Ser Asp Ile Phe Ser Asp His
19512         355                 360                 365
19514 Asn Asn His Leu Thr Ser Arg Glu Leu Leu Met Lys Glu Gly Thr Ser
19515     370                 375                 380
19517 Lys Phe Ala Asn Leu Asp Ser Ser Val Lys Glu Asn Gln Lys Arg Thr
19518 385                 390                 395                 400
19520 Gln Arg Arg Leu Gln Leu Gln Lys Asp Met Gly Val Met Gln Gly Thr
19521                 405                 410                 415
19523 Val Pro Tyr Leu Gly Thr Phe Leu Thr Asp Leu Thr Met Leu Asp Thr
19524             420                 425                 430
19526 Ala Leu Gln Asp Tyr Ile Glu Gly Gly Leu Ile Asn Phe Glu Lys Arg
19527         435                 440                 445
19529 Arg Arg Glu Phe Glu Val Ile Ala Gln Ile Lys Leu Leu Gln Ser Ala
19530     450                 455                 460
19532 Cys Asn Ser Tyr Cys Met Thr Pro Asp Gln Lys Phe Ile Gln Trp Phe
19533 465                 470                 475                 480
19535 Gln Arg Gln Gln Leu Leu Thr Glu Glu Glu Ser Tyr Ala Leu Ser Cys
19536                 485                 490                 495
```

RAW SEQUENCE LISTING DATE: 10/24/2002
PATENT APPLICATION: US/10/074,978 TIME: 14:54:14

Input Set : A:\Cura5691.app
Output Set: N:\CRF4\10242002\J074978.raw

```
19538 Glu Ile Glu Ala Ala Ala Asp Ala Ser Thr Thr Ser Pro Lys Pro Arg
19539             500                 505                 510
19541 Lys Ser Met Val Lys Arg Leu Ser Leu Leu Phe Leu Gly Ser Asp Met
19542         515                 520                 525
19544 Ile Thr Ser Pro Thr Pro Thr Lys Glu Gln Pro Lys Ser Thr Ala Ser
19545     530                 535                 540
19547 Gly Ser Ser Gly Glu Ser Met Asp Ser Val Ser Val Ser Ser Cys Glu
19548 545                 550                 555                 560
19550 Ser Asn His Ser Glu Ala Glu Glu Gly Ser Ile Thr Pro Met Asp Thr
19551                 565                 570                 575
19553 Pro Asp Glu Pro Gln Lys Lys Leu Ser Glu Ser Ser Ser Ser Cys Ser
19554             580                 585                 590
19556 Ser Ile His Ser Met Asp Thr Asn Ser Ser Gly Met Ser Ser Leu Ile
19557         595                 600                 605
19559 Asn Pro Leu Ser Ser Pro Pro Ser Cys Asn Asn Asn Pro Lys Ile His
19560     610                 615                 620
19562 Lys Arg Ser Val Ser Val Thr Ser Ile Thr Ser Thr Val Leu Pro Pro
19563 625                 630                 635                 640
19565 Val Tyr Asn Gln Gln Asn Glu Asp Thr Cys Ile Ile Arg Ile Ser Val
19566                 645                 650                 655
19568 Glu Asp Asn Asn Gly Asn Met Tyr Lys Ser Ile Met Leu Thr Ser Gln
19569             660                 665                 670
19571 Asp Lys Thr Pro Ala Val Ile Gln Arg Ala Met Leu Lys His Asn Leu
19572         675                 680                 685
19574 Asp Ser Asp Pro Ala Glu Glu Tyr Glu Leu Val Gln Val Ile Ser Glu
19575     690                 695                 700
19577 Asp Lys Glu Leu Val Ile Pro Asp Ser Ala Asn Val Phe Tyr Ala Met
19578 705                 710                 715                 720
19580 Asn Ser Gln Val Asn Phe Asp Phe Ile Leu Arg Lys Lys Asn Ser Met
19581                 725                 730                 735
19583 Glu Glu Gln Val Lys Leu Arg Ser Arg Thr Ser Leu Thr Leu Pro Arg
19584             740                 745                 750
E--> 19586 Thr Ala Lys Arg Gly Cys Trp Ser Xaa Arg His Ser Lys Ile Thr Leu
19587         755                 760                 765
```

see p. 7

VARIABLE LOCATION SUMMARY DATE: 10/24/2002
PATENT APPLICATION: US/10/074,978 TIME: 14:54:16

Input Set : A:\Cura5691.app
Output Set: N:\CRF4\10242002\J074978.raw

Use of n's or Xaa's(NEW RULES):
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:137; Xaa Pos. 1
Seq#:270; Xaa Pos. 192
Seq#:331; Xaa Pos. 761

VERIFICATION SUMMARY DATE: 10/24/2002
PATENT APPLICATION: US/10/074,978 TIME: 14:54:16

Input Set : A:\Cura5691.app
Output Set: N:\CRF4\10242002\J074978.raw

L:33 M:259 W: Allowed number of lines exceeded, 31 <110> Applicant Names
L:34 M:259 W: Allowed number of lines exceeded, 32 <110> Applicant Names
L:41 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:7208 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:137
L:16219 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:270
L:18409 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:18409 M:301 E: (44) No Sequence Data was Shown, SEQ ID:308
L:19586 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:331